

CLAIMS

1. A cell growth-suppressing agent comprising any one of (a) to (c) as an active ingredient:
 - (a) a double-stranded RNA comprising an RNA complementary to a WT1 gene
5 transcript, and an RNA complementary to said RNA;
 - (b) a DNA encoding the double-stranded RNA of (a); and
 - (c) a vector into which the DNA of (b) has been inserted.
2. The cell growth-suppressing agent of claim 1, wherein the double-stranded RNA comprises
10 an RNA complementary to a 17AA site of a WT1 gene transcript, and an RNA complementary to said RNA.
3. The cell growth-suppressing agent of claim 1, wherein the double-stranded RNA comprises
15 an RNA complementary to the nucleotide sequence of SEQ ID NO: 1 present in a 17AA site of a WT1 gene transcript, and an RNA complementary to said RNA.
4. The cell growth-suppressing agent of claim 1, wherein the double-stranded RNA comprises
the pair of the nucleotide sequence of SEQ ID NO: 1 and the nucleotide sequence of SEQ ID
20 NO: 2.
5. The cell growth-suppressing agent of claim 1, wherein the double-stranded RNA comprises
an RNA encoded by the DNA of any one of (a) to (c), and an RNA complementary to said RNA:
 - (a) a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 9, 12, 14,
and 16;
 - 25 (b) a DNA that hybridizes under stringent conditions with a DNA comprising the
nucleotide sequence of any one of SEQ ID NOs: 9, 12, 14, and 16; and
 - (c) a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 11, 13, 15,
and 17.
- 30 6. The cell growth-suppressing agent of any one of claims 1 to 5, wherein the agent targets a cancer cell.
7. The cell growth suppressing agent of any one of claims 1 to 5, wherein the agent targets any
one of a fibrosarcoma cell, colon cancer cell, leukemia cell, and gastric cancer cell.
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8. A cell death-inducing agent comprising any one of (a) to (c) as an active ingredient:

(a) a double-stranded RNA comprising an RNA complementary to a WT1 gene transcript, and an RNA complementary to said RNA;

(b) a DNA encoding the double-stranded RNA of (a); and

(c) a vector into which the DNA of (b) has been inserted.

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9. The cell death-inducing agent of claim 8, wherein the double-stranded RNA comprises an RNA encoded by the DNA of any one of (a) to (c), and an RNA complementary to said RNA:

(a) a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 9, 12, 14, and 16;

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(b) a DNA that hybridizes under stringent conditions with a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 9, 12, 14, and 16; and

(c) a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 11, 13, 15, and 17.

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10. The cell death-inducing agent of claim 8 or 9, wherein the agent induces cell death through mitochondria.

11. The cell death-inducing agent of any one of claims 8 to 10, wherein the agent targets a cancer cell.

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12. The cell death-inducing agent of any one of claims 8 to 10, wherein the agent targets any one of a fibrosarcoma cell, colon cancer cell, leukemia cell, and gastric cancer cell.

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13. An agent that enhances cancer cell sensitivity to an anticancer agent, wherein the agent comprises any one of (a) to (c) as an active ingredient:

(a) a double-stranded RNA comprising an RNA complementary to a WT1 gene transcript, and an RNA complementary to said RNA;

(b) a DNA encoding the double-stranded RNA of (a); and

(c) a vector into which the DNA of (b) has been inserted.

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14. The agent of claim 13, wherein the double-stranded RNA comprises an RNA encoded by the DNA of any one of (a) to (c), and an RNA complementary to said RNA:

(a) a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 9, 12, 14, and 16;

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(b) a DNA that hybridizes under stringent conditions with a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 9, 12, 14, and 16; and

(c) a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 11, 13, 15, and 17.

15. An agent that enhances cancer cell sensitivity to a cell death-inducing agent, wherein the agent comprises any one of (a) to (c) as an active ingredient:

(a) a double-stranded RNA comprising an RNA complementary to a WT1 gene transcript, and an RNA complementary to said RNA;

(b) a DNA encoding the double-stranded RNA of (a); and

(c) a vector into which the DNA of (b) has been inserted.

16. The agent of claim 15, wherein the double-stranded RNA comprises an RNA encoded by the DNA of any one of (a) to (c), and an RNA complementary to said RNA:

(a) a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 9, 12, 14, and 16;

(b) a DNA that hybridizes under stringent conditions with a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 9, 12, 14, and 16; and

(c) a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 11, 13, 15, and 17.

17. An agent that eliminates mitochondrial membrane potential in a cancer cell, wherein the agent comprises any one of (a) to (c) as an active ingredient:

(a) a double-stranded RNA comprising an RNA complementary to a WT1 gene transcript, and an RNA complementary to said RNA;

(b) a DNA encoding the double-stranded RNA of (a); and

(c) a vector into which the DNA of (b) has been inserted.

18. The agent of claim 17, wherein the double-stranded RNA comprises an RNA encoded by the DNA of any one of (a) to (c), and an RNA complementary to said RNA:

(a) a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 9, 12, 14, and 16;

(b) a DNA that hybridizes under stringent conditions with a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 9, 12, 14, and 16; and

(c) a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 11, 13, 15, and 17.

19. An agent that enhances cytochrome c release into cytoplasm, wherein the agent comprises

any one of (a) to (c) as an active ingredient:

(a) a double-stranded RNA comprising an RNA complementary to a WT1 gene transcript, and an RNA complementary to said RNA;

(b) a DNA encoding the double-stranded RNA of (a); and

5 (c) a vector into which the DNA of (b) has been inserted.

20. The agent of claim 19, wherein the double-stranded RNA comprises an RNA encoded by the DNA of any one of (a) to (c), and an RNA complementary to said RNA:

10 (a) a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 9, 12, 14, and 16;

(b) a DNA that hybridizes under stringent conditions with a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 9, 12, 14, and 16; and

(c) a DNA comprising the nucleotide sequence of any one of SEQ ID NOs: 11, 13, 15, and 17.

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